

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049586

Luminaire Tested: **GALN-SA5B-730-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049586
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19728.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

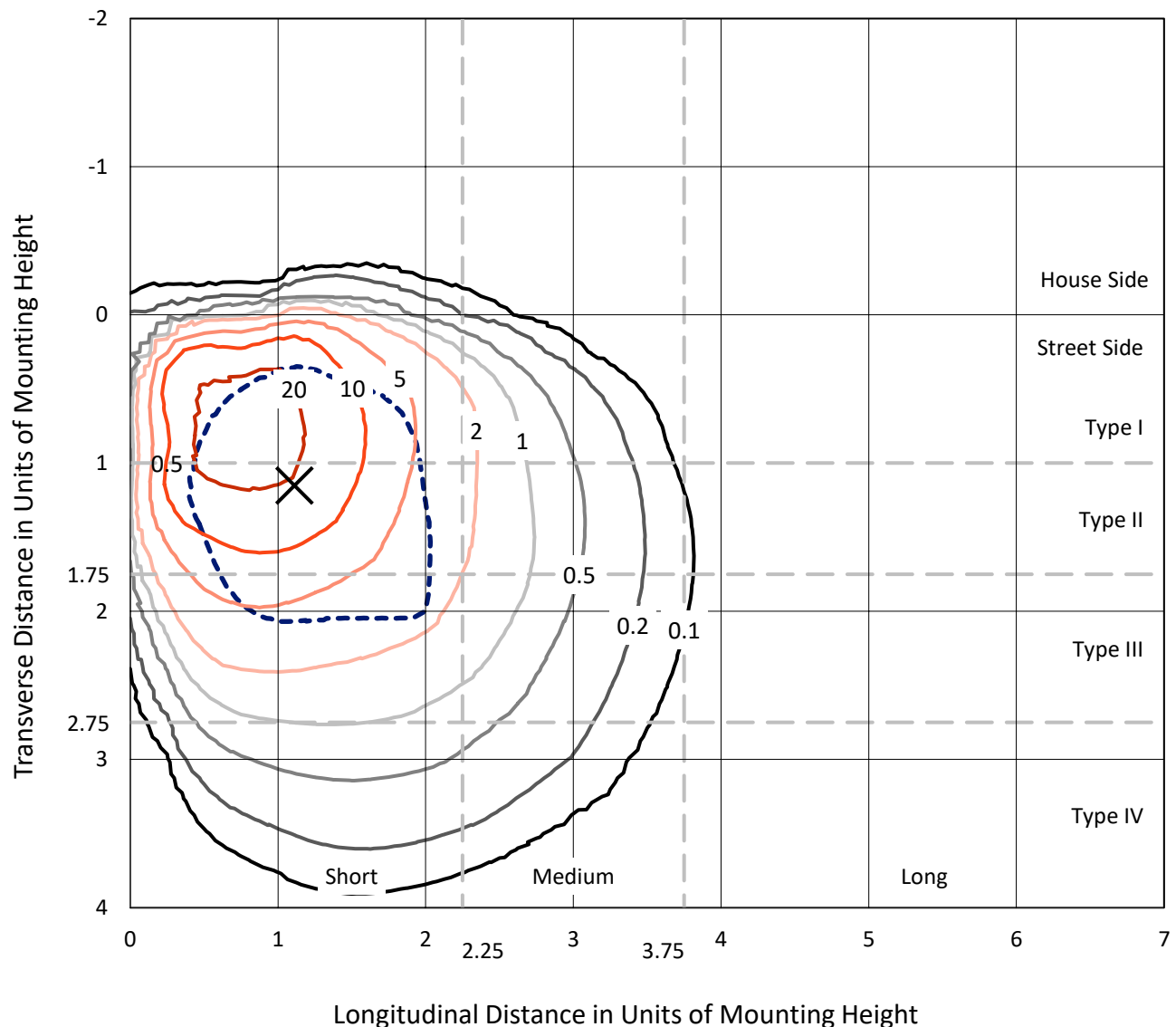
Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

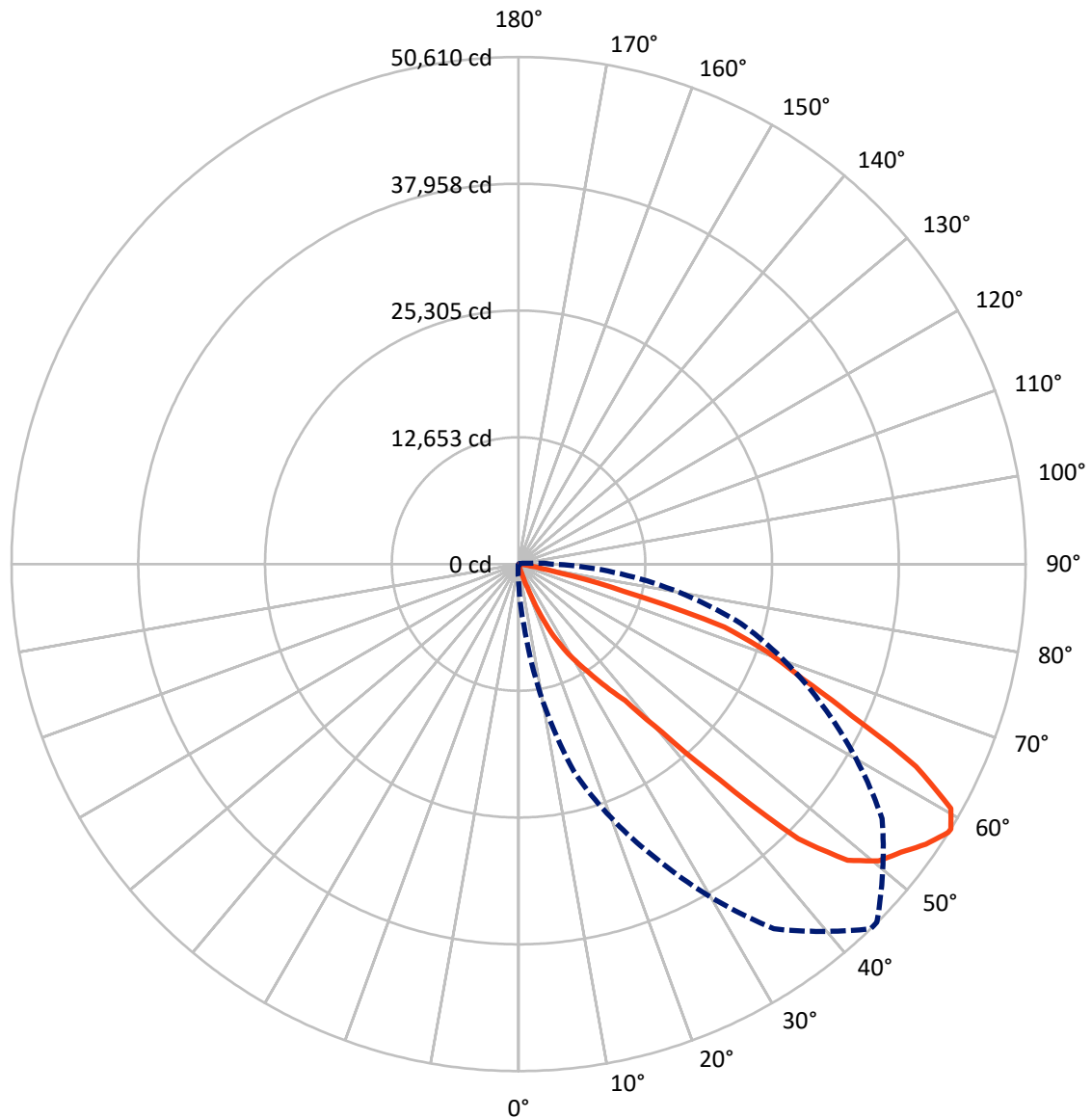
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	134.7	0.0	134.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19593.4	0.0	19593.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	19728.1	0.0	19728.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.0
10°-20°	43.3	0.2
20°-30°	467.4	2.4
30°-40°	1382.1	7.0
40°-50°	4119.5	20.9
50°-60°	6536.7	33.1
60°-70°	5452.4	27.6
70°-80°	1681.6	8.5
80°-90°	37.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19728.1	100.0
0°-180°	19728.1	100.0



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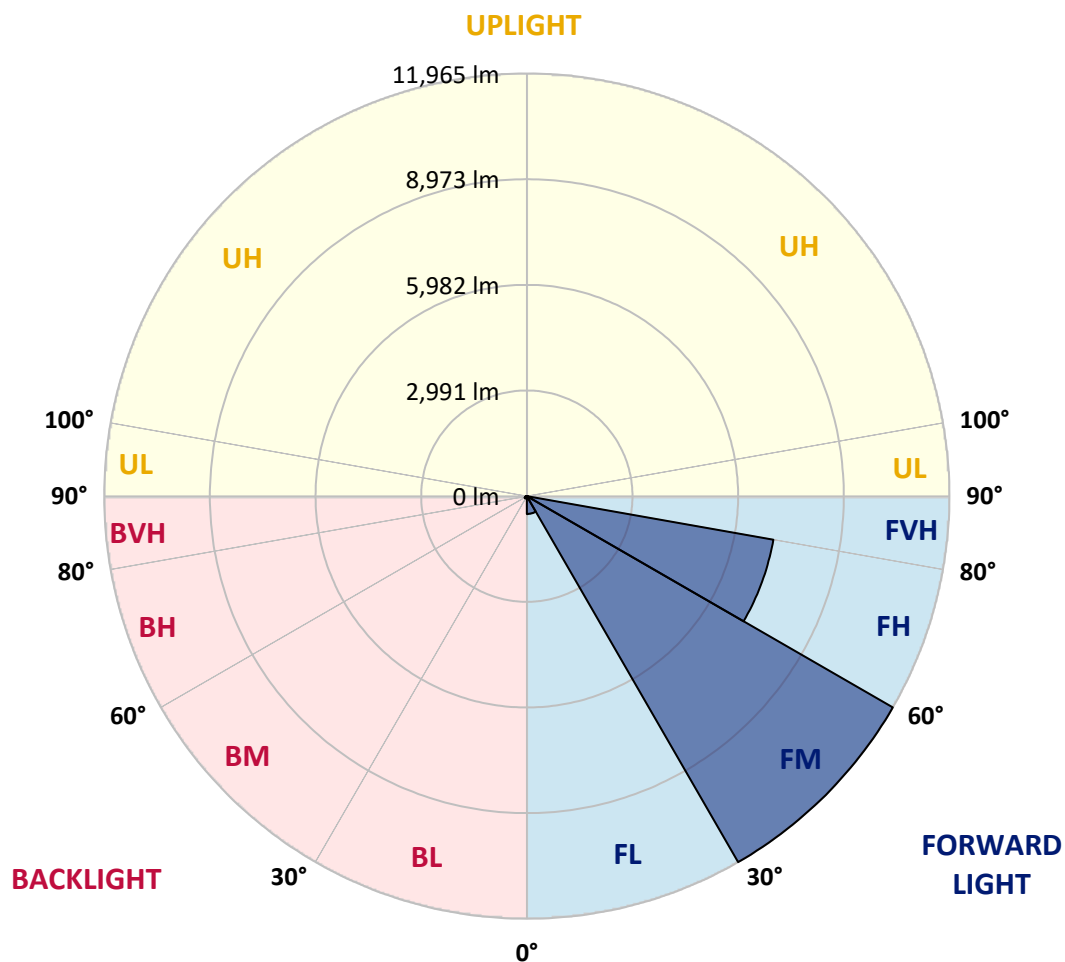
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.2	2.6			
FM	(30°-60°)	11964.7	60.6			
FH	(60°-80°)	7088.0	35.9			G3/7500
FVH	(80°-90°)	35.5	0.2			G1/100
BL	(0°-30°)	13.2	0.1	B0/110		
BM	(30°-60°)	73.7	0.4	B0/220		
BH	(60°-80°)	46.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	111.8	111.8	107.3	101.3	95.4	89.4	87.9	84.9	83.5	82.0
5°	116.2	116.2	114.8	110.3	104.3	99.8	99.8	95.4	92.4	89.4
7.5°	119.2	120.7	123.7	122.2	119.2	114.8	114.8	111.8	107.3	99.8
10°	123.7	128.2	134.1	137.1	138.6	138.6	137.1	135.6	128.2	117.7
12.5°	128.2	137.1	152.0	166.9	175.9	187.8	186.3	183.3	163.9	141.6
15°	137.1	150.5	181.8	225.0	292.1	333.8	350.2	335.3	271.2	190.8
17.5°	147.5	169.9	263.8	470.9	772.0	915.0	1001.5	931.4	617.0	362.1
20°	158.0	207.2	490.3	1220.5	2002.9	2470.9	2600.6	2397.9	1539.5	690.0
22.5°	175.9	290.6	994.0	2523.1	4315.9	5017.8	5150.4	4502.2	2907.6	1362.1
25°	213.1	421.8	1713.8	4111.7	6441.0	7625.8	7570.7	6721.2	4716.8	2175.8
27.5°	266.8	614.0	2591.6	5841.9	8476.8	9521.5	9646.6	8596.0	6287.5	3199.6
30°	344.3	851.0	3533.5	7227.9	10108.6	11238.3	11259.1	10172.7	7692.9	4098.3
32.5°	418.8	1074.5	4357.6	8567.7	11716.6	12955.1	13047.5	11710.7	8742.0	5034.2
35°	475.4	1220.5	5192.2	9745.0	13338.1	15044.5	15038.5	13451.3	9984.9	5870.2
37.5°	479.9	1366.6	5947.7	10949.1	15391.7	17302.2	17491.5	15741.9	11487.1	6904.5
40°	469.4	1530.5	6904.5	12826.9	19092.1	22023.5	22190.4	19984.8	14500.5	8675.0
42.5°	481.4	1815.2	8457.4	16294.8	25236.5	29446.6	29768.5	27449.6	20039.9	12287.4
45°	544.0	2350.2	11710.7	22096.5	33995.0	39127.5	39020.2	35680.5	26485.4	17786.6
47.5°	751.1	3660.1	16533.3	27743.2	39592.5	44163.2	44255.6	40173.7	30246.9	22014.5
50°	1155.0	5600.5	20585.4	30728.3	41999.3	46584.9	46498.5	41781.7	31676.1	24096.5
52.5°	1502.2	7004.4	22618.1	31775.9	42307.8	47781.6	47775.7	42205.0	31898.1	24275.3
55°	1588.6	7110.2	22634.5	31832.6	42999.3	49347.9	49544.6	43246.7	32185.8	23494.4
57.5°	1554.4	6295.0	21689.7	32160.4	44230.3	50559.5	50569.9	44255.6	32916.0	23016.0
58°	1524.6	6166.8	21498.9	32346.7	44441.9	50610.2	50584.9	44301.8	33510.6	22998.1
60°	1357.7	5354.6	20755.2	32822.1	44127.4	49570.0	49333.0	43292.9	33422.7	22814.8
62.5°	1067.0	4177.3	20023.5	32272.2	40756.4	44534.3	44632.6	38328.7	30468.9	21746.3
65°	849.5	3113.2	18497.5	28308.0	33561.3	36571.7	36938.3	31167.9	25431.8	18414.0
67.5°	676.6	2250.3	15516.9	22537.6	26556.9	30522.6	30789.4	26168.0	19703.1	14108.6
70°	549.9	1521.6	10710.7	16482.6	21904.3	26363.2	26379.6	21738.8	14706.2	9244.3
72.5°	487.3	1053.6	6217.5	12020.7	17761.3	21482.5	21048.8	17640.5	11302.3	5475.3
75°	421.8	698.9	3049.1	7348.6	10768.8	10841.8	11007.3	8183.2	5649.7	2603.5
77.5°	347.2	496.3	1201.2	2007.4	3229.5	4134.1	4287.6	3248.8	1879.3	640.8
80°	238.4	235.5	323.4	615.5	924.0	1158.0	1080.5	836.1	491.8	245.9
82.5°	102.8	111.8	146.0	175.9	143.1	138.6	132.6	84.9	65.6	50.7
85°	32.8	29.8	31.3	31.3	25.3	19.4	19.4	8.9	0.0	0.0
87.5°	16.4	13.4	13.4	11.9	7.5	3.0	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
86.4	0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
80.5	2.5°	79.0	79.0	76.0	73.0	71.5	68.6	67.1	65.6	64.1	62.6
86.4	5°	83.5	82.0	77.5	73.0	68.6	64.1	61.1	58.1	55.1	53.7
95.4	7.5°	90.9	87.9	79.0	71.5	65.6	59.6	56.6	52.2	49.2	44.7
105.8	10°	99.8	93.9	82.0	73.0	64.1	56.6	52.2	47.7	43.2	37.3
120.7	12.5°	111.8	101.3	86.4	71.5	61.1	52.2	47.7	41.7	37.3	32.8
140.1	15°	122.2	108.8	87.9	71.5	58.1	47.7	41.7	35.8	31.3	25.3
175.9	17.5°	137.1	114.8	86.4	67.1	53.7	41.7	35.8	31.3	23.8	14.9
260.8	20°	162.4	119.2	83.5	62.6	46.2	34.3	26.8	20.9	10.4	3.0
391.9	22.5°	202.7	131.1	80.5	56.6	40.2	26.8	17.9	7.5	0.0	0.0
596.1	25°	280.2	152.0	80.5	53.7	35.8	19.4	6.0	0.0	0.0	0.0
846.5	27.5°	372.6	180.3	80.5	46.2	28.3	10.4	0.0	0.0	0.0	0.0
1153.5	30°	466.5	211.6	80.5	40.2	22.4	1.5	0.0	0.0	0.0	0.0
1420.2	32.5°	555.9	238.4	82.0	34.3	14.9	0.0	0.0	0.0	0.0	0.0
1789.8	35°	646.8	242.9	80.5	29.8	8.9	0.0	0.0	0.0	0.0	0.0
2242.9	37.5°	763.0	234.0	76.0	26.8	4.5	0.0	0.0	0.0	0.0	0.0
2950.8	40°	938.9	238.4	71.5	25.3	1.5	0.0	0.0	0.0	0.0	0.0
4213.0	42.5°	1263.8	257.8	65.6	25.3	0.0	0.0	0.0	0.0	0.0	0.0
6710.8	45°	2184.8	345.7	59.6	26.8	0.0	0.0	0.0	0.0	0.0	0.0
10074.3	47.5°	3613.9	621.5	58.1	26.8	0.0	0.0	0.0	0.0	0.0	0.0
12135.4	50°	4612.4	782.4	61.1	28.3	0.0	0.0	0.0	0.0	0.0	0.0
12393.2	52.5°	4605.0	871.8	64.1	29.8	6.0	0.0	0.0	0.0	0.0	0.0
11423.1	55°	4093.8	888.2	68.6	32.8	19.4	0.0	0.0	0.0	0.0	0.0
9816.5	57.5°	3421.7	810.7	79.0	40.2	35.8	0.0	0.0	0.0	0.0	0.0
9564.7	58°	3302.5	774.9	82.0	41.7	38.7	0.0	0.0	0.0	0.0	0.0
8296.4	60°	2706.4	631.9	104.3	52.2	52.2	0.0	0.0	0.0	0.0	0.0
6801.7	62.5°	1868.8	551.4	119.2	67.1	53.7	0.0	0.0	0.0	0.0	0.0
5014.8	65°	1321.9	497.8	129.7	71.5	43.2	0.0	0.0	0.0	0.0	0.0
3563.3	67.5°	988.1	459.0	143.1	73.0	22.4	0.0	0.0	0.0	0.0	0.0
2235.4	70°	757.1	430.7	175.9	77.5	6.0	0.0	0.0	0.0	0.0	0.0
1332.3	72.5°	617.0	397.9	213.1	80.5	0.0	0.0	0.0	0.0	0.0	0.0
798.8	75°	511.2	359.2	205.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
426.2	77.5°	339.8	278.7	187.8	87.9	0.0	0.0	0.0	0.0	0.0	0.0
152.0	80°	119.2	110.3	146.0	77.5	0.0	0.0	0.0	0.0	0.0	0.0
31.3	82.5°	17.9	14.9	20.9	26.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
86.4	0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
61.1	2.5°	61.1	61.1	59.6	61.1	61.1	64.1	71.5	82.0	93.9	98.4
52.2	5°	50.7	49.2	47.7	47.7	47.7	52.2	58.1	70.0	83.5	89.4
43.2	7.5°	41.7	40.2	38.7	37.3	37.3	40.2	47.7	61.1	74.5	80.5
35.8	10°	34.3	31.3	29.8	28.3	28.3	31.3	38.7	52.2	67.1	73.0
29.8	12.5°	28.3	23.8	20.9	19.4	17.9	22.4	29.8	41.7	58.1	65.6
22.4	15°	19.4	14.9	10.4	8.9	7.5	11.9	19.4	32.8	49.2	58.1
11.9	17.5°	10.4	4.5	1.5	0.0	0.0	3.0	8.9	23.8	40.2	47.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	29.8	37.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	17.9	25.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	13.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
86.4	0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
102.8	2.5°	105.8	104.3	101.3	98.4	98.4	98.4	102.8	107.3	111.8	111.8
92.4	5°	98.4	98.4	96.9	93.9	93.9	95.4	101.3	108.8	114.8	116.2
84.9	7.5°	90.9	93.9	90.9	89.4	90.9	92.4	98.4	107.3	116.2	119.2
79.0	10°	86.4	87.9	87.9	86.4	86.4	89.4	95.4	107.3	119.2	123.7
71.5	12.5°	80.5	83.5	82.0	82.0	82.0	84.9	92.4	105.8	122.2	128.2
64.1	15°	74.5	79.0	79.0	77.5	77.5	79.0	89.4	104.3	126.7	137.1
55.1	17.5°	68.6	73.0	74.5	71.5	71.5	74.5	84.9	104.3	129.7	147.5
44.7	20°	56.6	64.1	68.6	64.1	64.1	67.1	77.5	98.4	131.1	158.0
32.8	22.5°	44.7	52.2	58.1	56.6	56.6	58.1	71.5	93.9	132.6	175.9
19.4	25°	32.8	40.2	44.7	47.7	47.7	52.2	65.6	90.9	138.6	213.1
8.9	27.5°	19.4	28.3	34.3	37.3	38.7	44.7	61.1	87.9	149.0	266.8
0.0	30°	8.9	16.4	23.8	29.8	29.8	40.2	56.6	84.9	162.4	344.3
0.0	32.5°	0.0	7.5	11.9	20.9	22.4	32.8	52.2	82.0	181.8	418.8
0.0	35°	0.0	0.0	6.0	16.4	16.4	26.8	47.7	79.0	211.6	475.4
0.0	37.5°	0.0	0.0	0.0	11.9	13.4	23.8	46.2	77.5	217.6	479.9
0.0	40°	0.0	0.0	0.0	8.9	10.4	22.4	46.2	79.0	196.7	469.4
0.0	42.5°	0.0	0.0	0.0	6.0	7.5	22.4	46.2	82.0	177.3	481.4
0.0	45°	0.0	0.0	0.0	4.5	6.0	23.8	44.7	80.5	166.9	544.0
0.0	47.5°	0.0	0.0	0.0	6.0	8.9	23.8	43.2	79.0	168.4	751.1
0.0	50°	0.0	0.0	0.0	7.5	10.4	23.8	44.7	76.0	184.8	1155.0
0.0	52.5°	0.0	0.0	0.0	6.0	8.9	26.8	49.2	74.5	201.2	1502.2
0.0	55°	0.0	0.0	0.0	1.5	4.5	34.3	53.7	74.5	226.5	1588.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	38.7	61.1	79.0	268.3	1554.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	38.7	62.6	79.0	271.2	1524.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	38.7	68.6	87.9	292.1	1357.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	32.8	82.0	110.3	304.0	1067.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	26.8	96.9	120.7	313.0	849.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.3	99.8	122.2	317.4	676.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	26.8	98.4	131.1	332.3	549.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	29.8	89.4	144.6	332.3	487.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	31.3	83.5	162.4	302.5	421.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	29.8	82.0	189.3	269.7	347.2
0.0	80°	3.0	4.5	4.5	3.0	3.0	25.3	80.5	192.2	229.5	238.4
1.5	82.5°	8.9	11.9	10.4	7.5	7.5	22.4	71.5	161.0	119.2	102.8
8.9	85°	16.4	19.4	19.4	16.4	16.4	20.9	44.7	58.1	40.2	32.8
16.4	87.5°	22.4	25.3	25.3	22.4	22.4	20.9	19.4	17.9	16.4	16.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

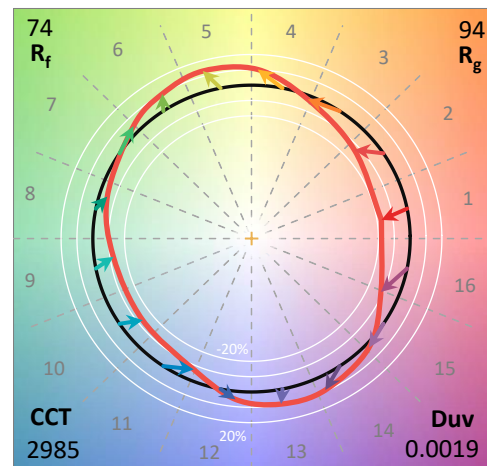
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

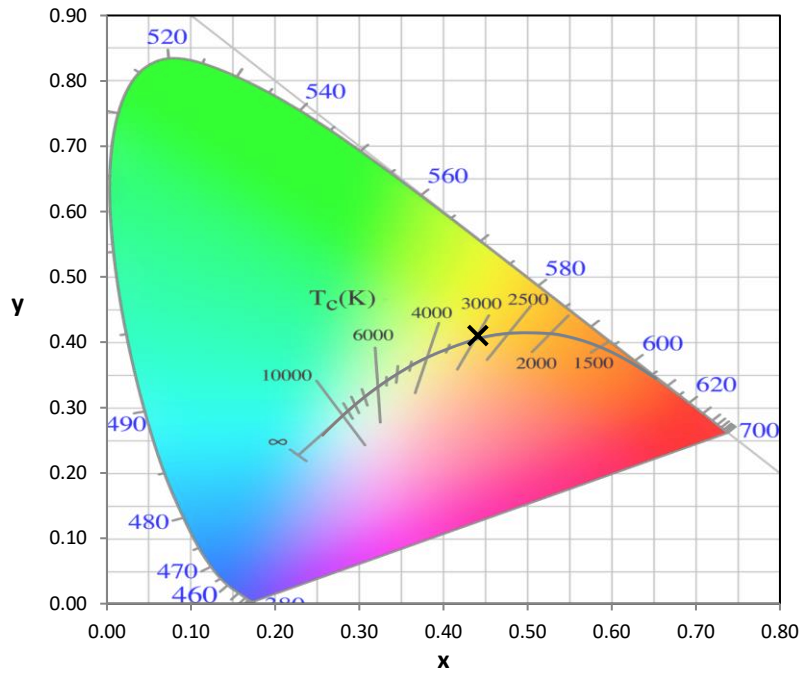
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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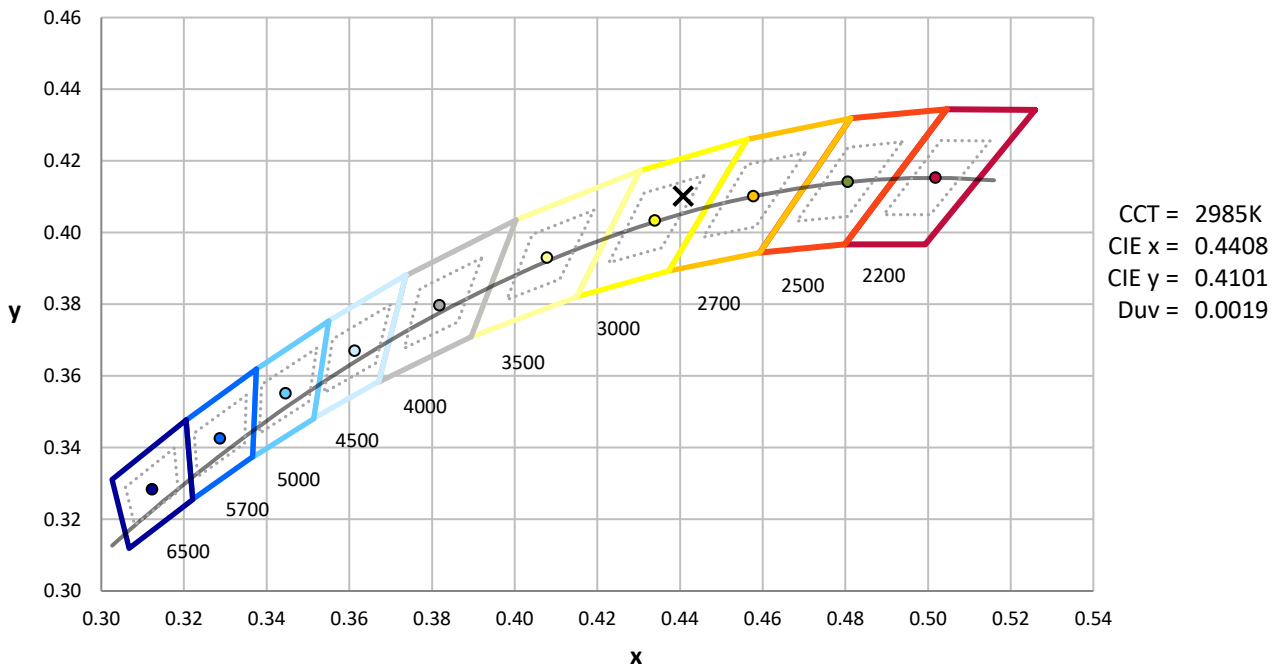
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



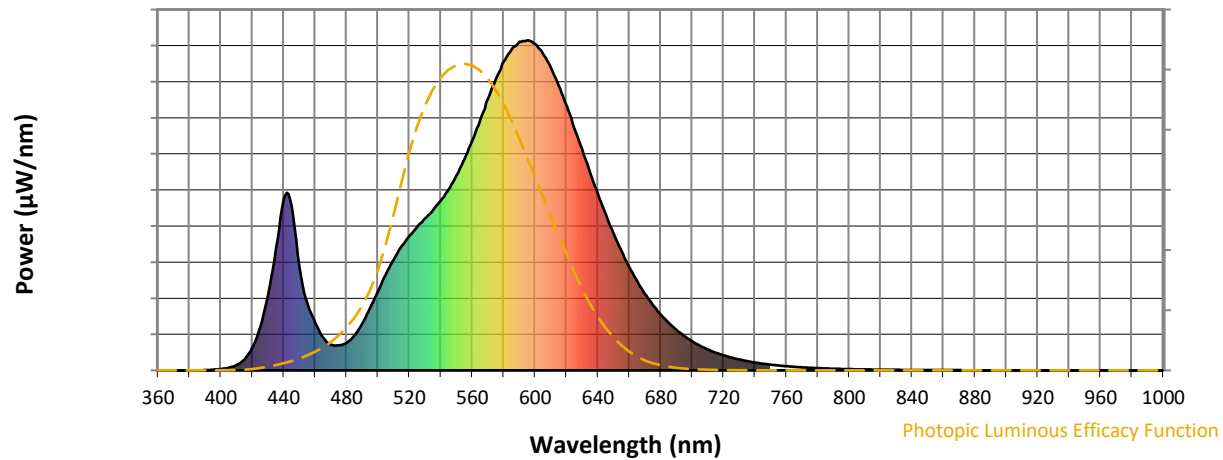
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

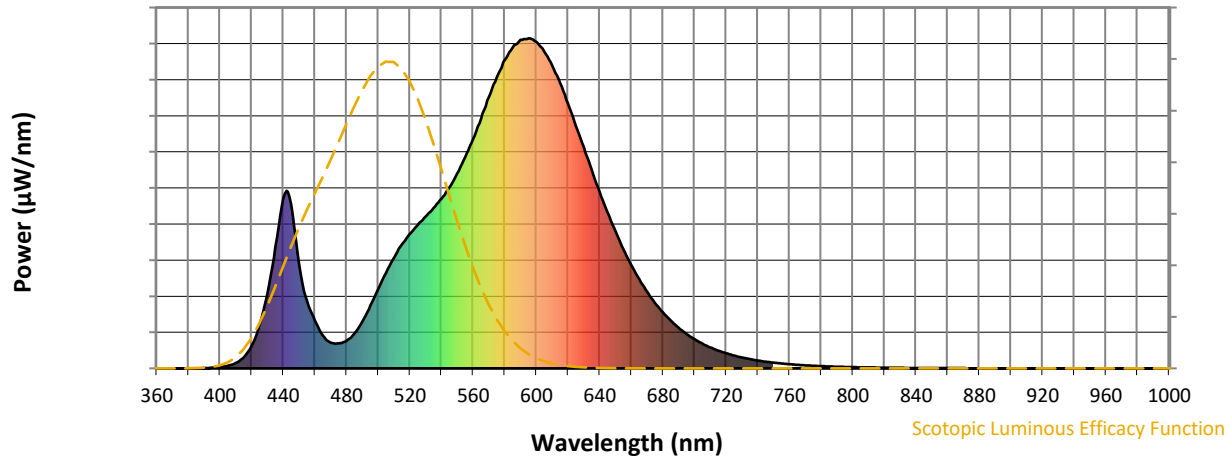


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



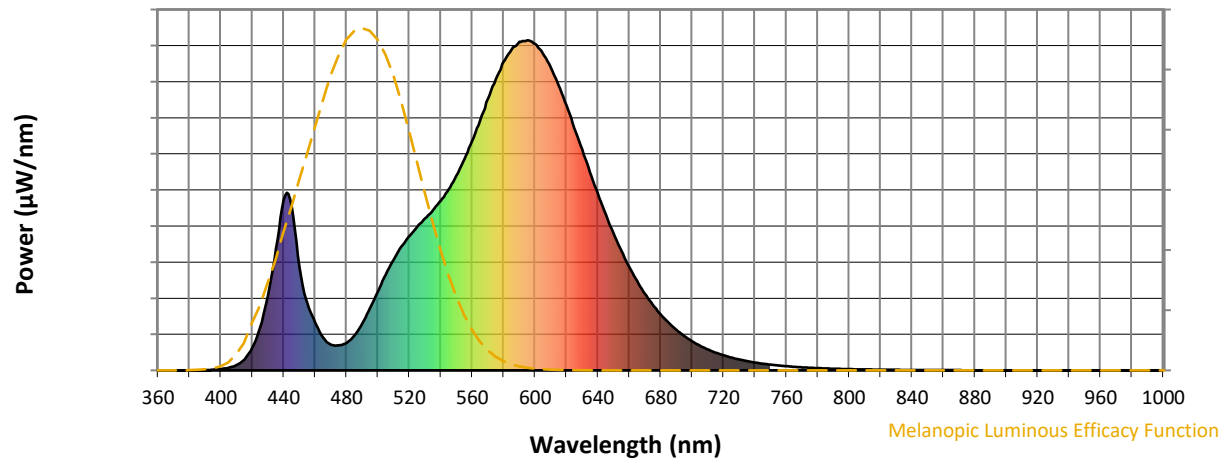
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

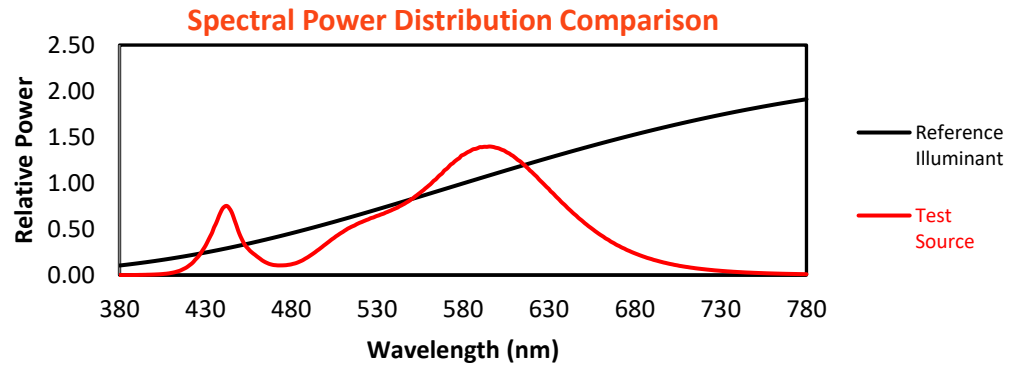
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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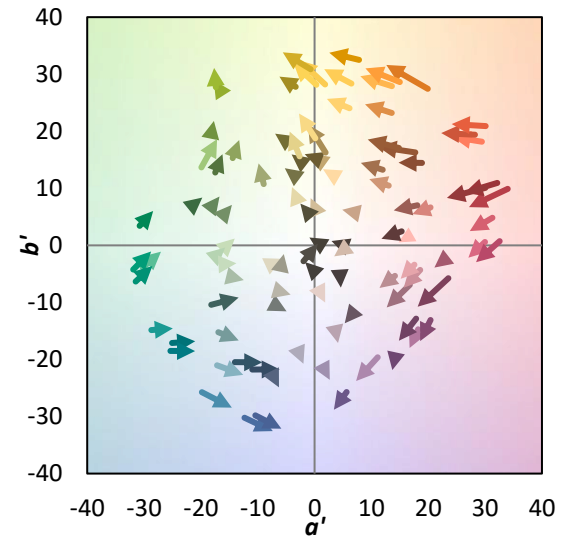
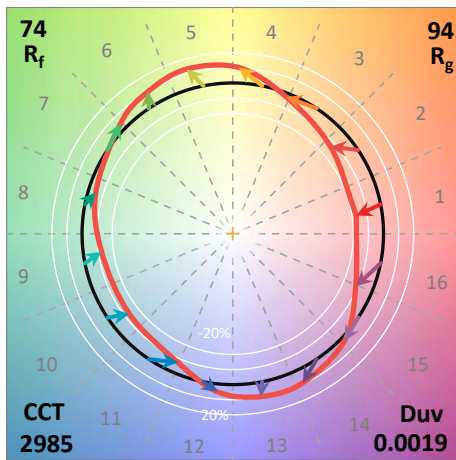
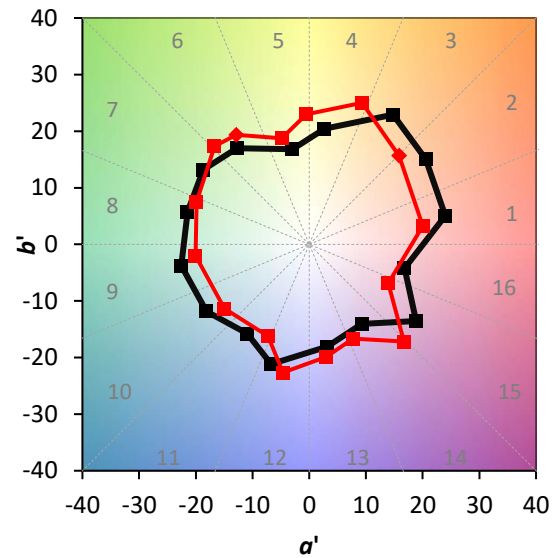
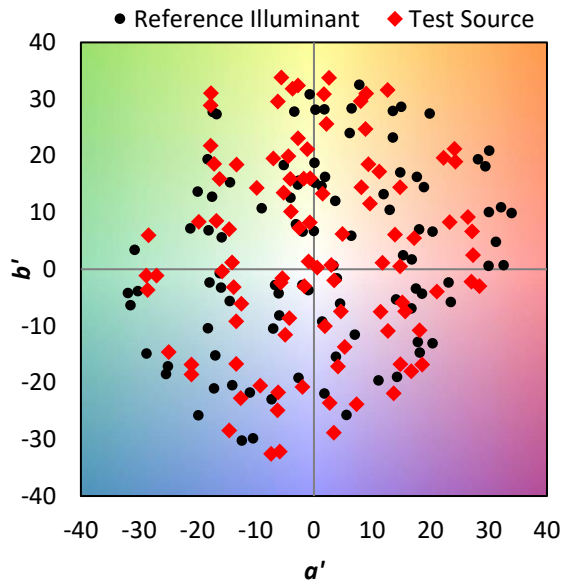
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

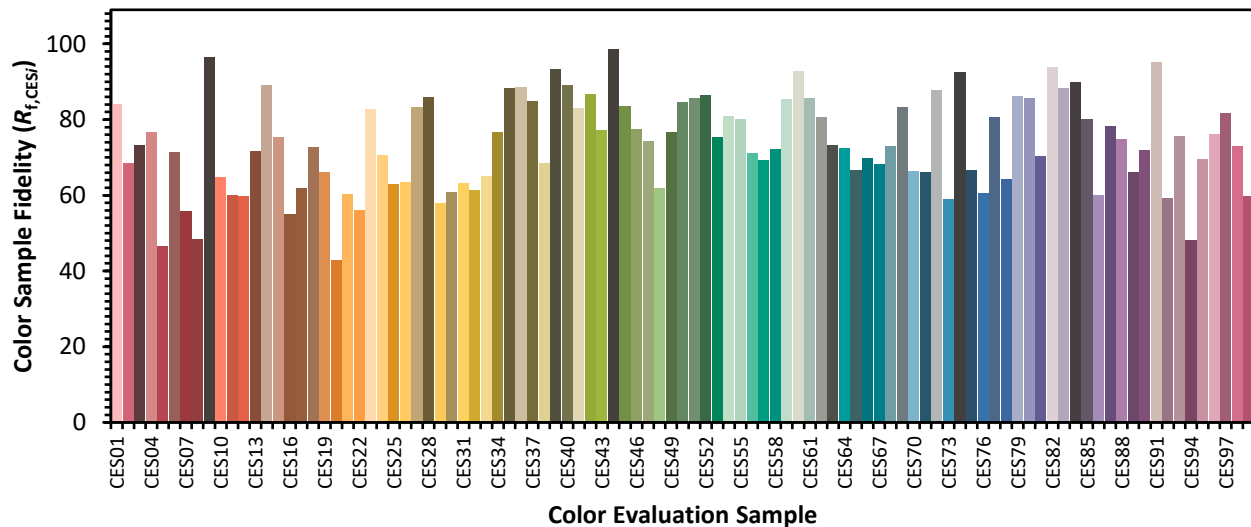


Color Vector Graphics

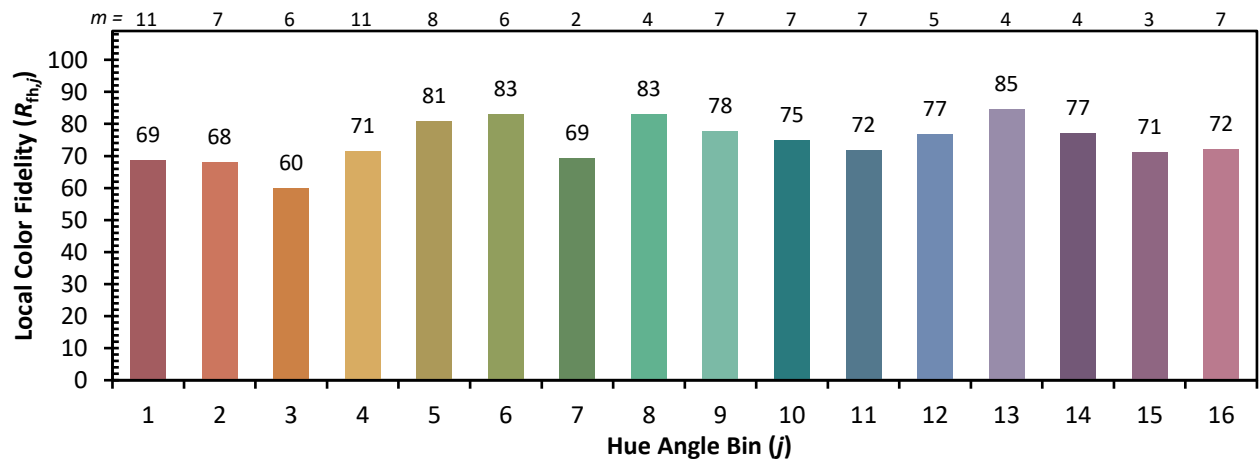
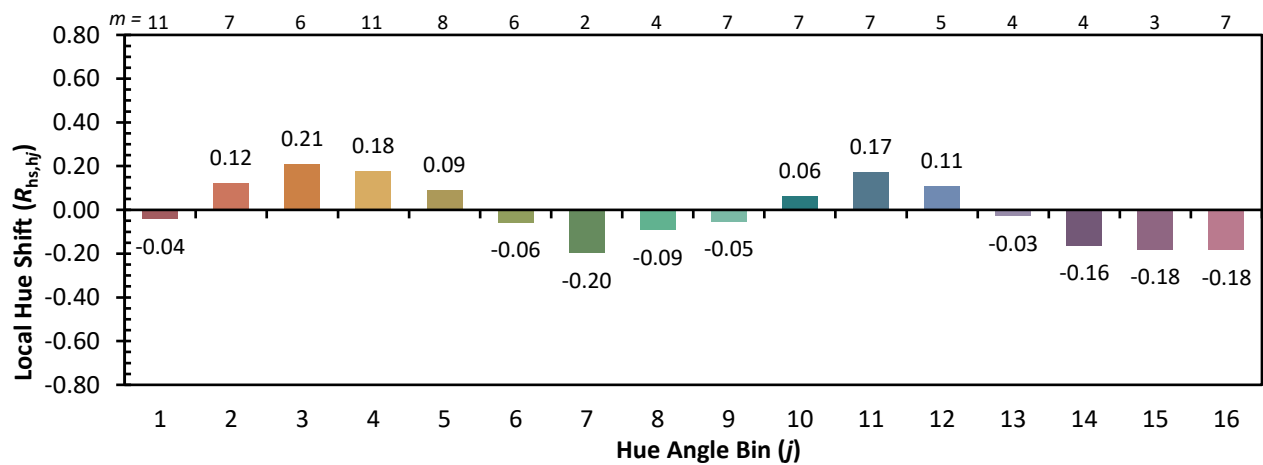
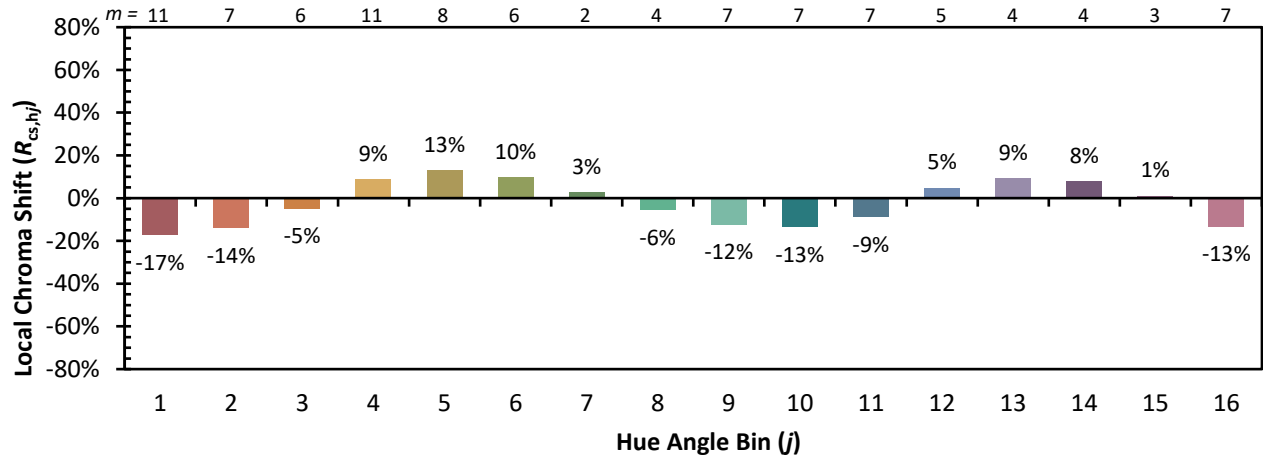


Individual Sample Fidelity Index ($R_{f,i}$)

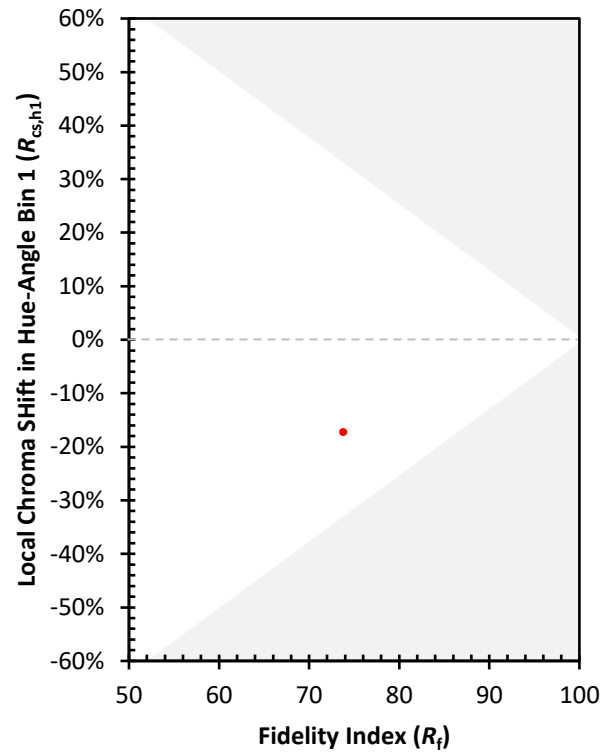
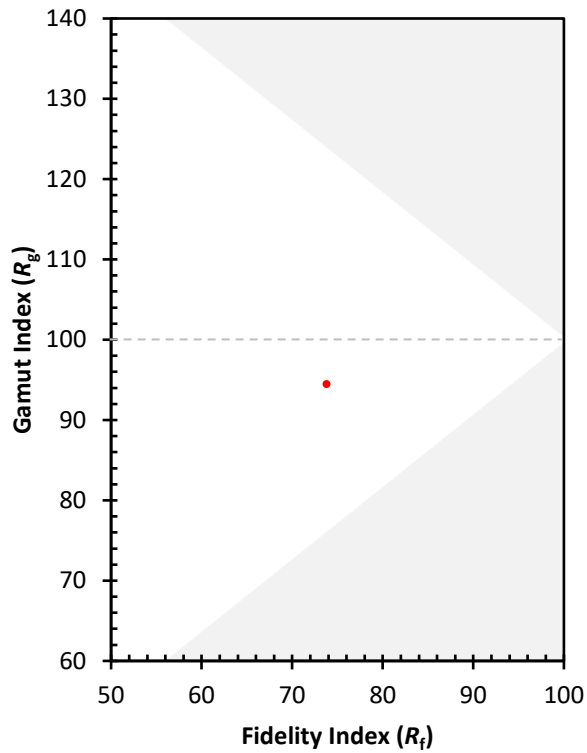
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)